

Electronic View-Finder Driving IC with Synchronous Signal

609

■ Pin Descriptions

Pin No.	Pin name	Pin No.	Pin name
1	Vertical size control input	9	H _D output
2	Power supply input	10	GND
3	Vertical deflection coil driver output (1)	11	Video input
4	GND	12	Power supply pin
5	Vertical deflection coil driver output (2)	13	Video amplifier output
6	Vertical oscillation resistor pin	14	Phase comparator output
7	Vertical oscillation capacitor pin	15	Horizontal oscillation resistor pin
8	V _D output	16	Horizontal AFC output

■ Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Supply voltage	V _{CC}	5.5	V
Supply current	I _{CC}	47	mA
Power dissipation ^{Note 2)}	P _D	190	mW
Operating ambient temperature ^{Note 1)}	T _{opr}	-20 to +75	°C
Storage temperature ^{Note 1)}	T _{stg}	-55 to +125	°C

Note 1) Ta=25°C except operating ambient temperature and storage temperatures unless otherwise specified.

Note 2) Power dissipation is that of a package at Ta=75°C.

■ Recommended Operating Range (Ta=25°C)

Parameter	Symbol	Range
Operating supply voltage range	V _{CC}	4.5V to 5.3V

■ Electrical Characteristics (Ta=25±2°C)

Parameter	Symbol	Condition	min	typ	max	Unit	Note
Supply current (1)	I ₂		2.35	7.5	13.0	mA	at no-load
Supply current (2)	I ₁₂		5.5	10.0	14.0	mA	at no-load
Video amp. gain	G _v		5.0	6.0	7.0	dB	
Video amp. dynamic range	DR _v		2.0	3.0	4.0	dB	
Synchronous separating capability (1)	HSEP1		0.2	—	—	V	
Synchronous separating capability (2)	HSEP2		—	—	1.3	V	
Video signal H _D width	τ _{Hout}		7.0	8.0	9.0	μs	
H _D width	τ _{HD}		8.5	9.5	10.5	μs	
AFC output H _D width	τ _{AFCHD}		9.5	10.5	11.5	μs	
Horizontal free oscillation freq.	f _{Hfree}		14.25	15.75	17.25	kHz	
AFC lock range	f _{AFC}		15.25	15.75	16.25	kHz	
AFC control sensitivity	β		840	960	1080	Hz/μA	
Vertical separation time	T _{VSEP}		8	16	24	μs	
V _D width	τ _{VD}		800	900	1000	μs	
Video signal V _D width	τ _{Vout}		1.1	1.3	1.5	ms	
Vertical free-oscillation frequency	f _{Vfree}		45	49	53	Hz	
Vertical deflection output amplitude (1)	v _{VDEF1}		1.3	1.6	1.9	V	
Vertical deflection output amplitude (2)	v _{VDEF2}		1.3	1.6	1.9	V	
Vertical deflection output dynamic range (1)	DR _{VDEF1}		2.0	2.4	2.8	V	
Vertical deflection output dynamic range (2)	DR _{VDEF2}		2.0	2.4	2.8	V	

■ 6932852 0014689 379 ■

Panasonic